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广东产轴鳞蕨属（叉蕨科）植物*

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摘要: 基于馆藏标本的研究，确认广东产 3 种轴鳞蕨属植物：异鳞轴鳞蕨 *Dryopsis heterolaena*、泡鳞轴鳞蕨 *D. mariformis* 和阔鳞轴鳞蕨 *D. maximowicziana*，其中泡鳞轴鳞蕨和阔鳞轴鳞蕨为广东新记录的蕨类。澄清广东不产顶果轴鳞蕨 *D. apiciflora*，最近出版的《广东植物志》第七卷记载的顶囊肋毛蕨 *Ctenitis apiciflora*（即顶果轴鳞蕨 *D. apiciflora*），系异鳞轴鳞蕨的错误鉴定。文中列有分种检索表、种的文献引证、标本引证、生境与分布资料。

关键词: 轴鳞蕨属; 新记录; 分类; 广东
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Dryopsis (Tectariaceae) in Guangdong, China

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Abstract: Based on herbaria collections, three species of the fern genus *Dryopsis* (Tectariaceae) are recognized from Guangdong Province, China . They are *D. heterolaena*, *D. mariformis* and *D. maximowicziana* . Among the three species, *D. mariformis* and *D. maximowicziana* are new records to Guangdong . In the newly published book, Flora of Guangdong Volume VII, the name *Ctenitis apiciflora* (Wall . ex Mett .) Ching (= *D. apiciflora* (Wall . ex Mett .) Holttum & Edwards) instead of *D. heterolaena* is recorded due to misidentification . The morphological and ecological differences between *D. heterolaena* and *D. apiciflora* are discussed . A key to the three species, habitat and distribution data on the three species are given .

Key words: *Dryopsis*; New record; Taxonomy; Guangdong

The fern genus *Dryopsis* was established by Holttum & Edwards (1986), who raised the subgenus *Ctenitis* subgen. *Dryopsis* Ching to generic rank . Morphologically and ecologically, *Dryopsis* Holttum & Edwards is closer to *Dryopteris* Adans . than to *Ctenitis* C . Chr .(Holttum and Edwards, 1986; Dong and Lu, 2001) .

In the treatment of *Ctenitis* C . Chr . for Flora Reipublicae Popularis Sinicae 6 (1) (Wang, 1999), the section *Ctenitis* sect. *Dryopsis* Ching instead of the genus *Dryopsis* Holttum & Edwards was adopted and no species in this group was recorded with distribution in Guangdong Province .

The fern flora of Guangdong was newly come out by Wu (2006) . Wu recognized *Ctenitis apiciflora* (Wall . ex Mett .) Ching in Guangdong . When checking the voucher specimen of this species from Guangdong in IBSC, I found the only voucher was C . Wang 44354 (IBSC, KUN) . In fact, the specimen C . Wang 44354 had been cited under the name *Dryopsis heterolaena* (C . Chr .) Holttum & Edwards by Dong and Lu (2001) . My rechecking the specimen showed that Wu's naming it *C. apiciflora* is a misidentification, the differences between the two species are discussed later on . In addition, two other species, *D. mariformis* (Rosenst .) Holttum & Edwards and *D. maximowicziana* (Miq .) Holttum & Edwards, are turned out to be new records to the fern flora of Guangdong .

Taxonomical treatment

Dryopsis Holttum & Edwards in Kew Bull . **41**: 171 . 1986; K . U . Kramer in K . Kubitziki, Fam . Gen . Vasc . Pl . **1**: 126 . 1990 . —— *Ctenitis* subgen. *Dryopsis* Ching in Bull . Fan . Mem Inst . Biol . Bot . **8**: 280 . 1938, nom . invalid . —— *Ctenitis* sect. *Dryopsis* (Ching) Ching in S . H . Wu & Ching, Fern . Fam . Gen . China . 442 . 1991, Chu H . Wang in Fl .

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Reip . Pop . Sin . **6** (1): 3 . 1999, nom . invalid .

Type: *Dryopsis apiciflora* (Wall . ex Mett .) Holttum & Edwards from Nepal .

About 20 species, distributed in tropical and subtropical areas of Asia, the greatest concentration in southwestern China; terrestrial in montane forests . About 15 species in China and 3 in Guandong .

A Key to Species of *Dryopsis* from Guangdong, China

1 . Lamina ovate-triangular, 3-pinnate; scales on basal stipes broadly lanceolate, 2-4 mm wide ··· **1 . *D. maximowicziana***
1 . Lamina lanceolate, 2-pinnate; scales on basal stipes lanceolate, less than 1 mm wide .
  2 . Stipes stramineous; pinnules usually entire or slightly lobed; no scales or a few scales presenting on abaxial surface of pinnule-costae ····· **2 . *D. mariformis***
  2 . Stipes castaneous; pinnules usually pinnatifid or deeply lobed; many bullate scales presenting on abaxial surface of pinnule-costae ····· **3 . *D. heterolaena***

1 . *Dryopsis maximowicziana* (**阔鳞轴鳞蕨**) (Miq .) Holttum & Edwards in Kew Bull . **41**: 197 . 1986 . —— *Aspidium maximowiczianum* Miq . in Ann . Mus . Bot . Lugduno-Batavum **3**: 178 . 1867 . —— *Ctenitis maximowiczianum* (Miq .) Ching in Bull . Fan Mem . Inst . Biol . Bot . **8**: 294 . 1938; Chu H . Wang in Fl . Reip . Pop . Sin . **6** (1): 27, pl . 5, figs . 1-4 . 1999 . Type: Japan . Buerger s.n . (holotype, L) .

Specimens examined:

China . Guangdong (**广东**): Lechang (**乐昌**), F . G . Wang (**王发国**) 935 (IBSC), new record .

Habitat: Terrestrial in forests, alt . 500-1 300 m .

Distribution: China (Fujian, Guangdong, Guangxi, Guizhou, Hunan, Jiangxi, Sichuan, Taiwan, Zhejiang), Japan .

2 . *Dryopsis mariformis* (**泡鳞轴鳞蕨**) (Rosenst .) Holttum & Edwards in Kew Bull . **41**: 188 . 1986 . —— *Dryopteris mariformis* Rosenst . in Repert . Spec . Nov . Regni Veg . **13**: 131 . 1914 . —— *Ctenitis mariformis* (Rosenst .) Ching in Bull . Fan Mem . Inst . Biol . Bot . **8**: 286 . 1938; Chu H . Wang in Fl . Reip . Pop . Sin . **6** (1): 9 . 1999 . Type: China . Guizhou (**贵州**): Guiding (**贵定**), Cavalerie 1962 (isotype, BM) .

Specimens examined:

China . Guangdong (**广东**): Lechang (**乐昌**), Nanling Exped . (**南岭队**) 3399 (IBSC), new record .

Habitat: Terrestrial in forests, alt . 1 100-3 100 m .

Distribution: Endemic to China (Fujian, Guangdong, Guizhou, Hunan, Jiangxi, Sichuan, Yunnan, Zhejiang) .

3 . *Dryopsis heterolaena* (**异鳞轴鳞蕨**) (C . Chr .) Holttum & Edwards in Kew Bull . **41**: 185 . 1986 . —— *Dryopteris heterolaena* C . Chr . in Acta Horti Gothob . **1**: 62, f . 17 . 1924 . —— *Ctenitis heterolaena* (C . Chr .) Ching in Bull . Fan Mem . Inst . Biol . Bot . **8**: 293 . 1938; Chu H . Wang in Fl . Reip . Pop . Sin . **6** (1): 7 . 1999 . Type: China . Sichuan (**四川**): Daxiangling (**大相岭**), Harry Smith 2126 (holotype, UPS; isotype, BM) .

Ctenitis apiciflora auct ., non Ching: Wu in T . L . Wu *et al* ., Fl . Guangdong 7: 243, f . 110 . 2006 .

Specimens examined:

China . Guangdong (**广东**): Ruyuan (**乳源**), C . Wang (**黄志**) 44354 (IBSC, KUN) .

Habitat: Terrestrial in forests, alt . 800-2 300 m .

Distribution: Endemic to China (Guangdong, Guangxi, Guizhou, Hunan, Sichuan, Xizang, Yunnan) .

This species is distinctly distinguished from *D . apiciflora* (Wall . ex Mett) Holttum & Edwards by pinnules, at least those on basal pinnae, deeply lobed, costae covered by typically bullate scales and sori on the whole pinnules . Contrastively, *D . apiciflora* is different in pinnules usually entire, flat and ovate or slightly bullate scales on costae and sori only on the apex of pinnules . Ecologically, *D . heterolaena* occurs in evergreen broad-leaf forest and needle and broad-leaf mixed forest at 800-2 300 m, while *D . apiciflora* tends to growing in needle-leaf forests at 1 800-3 300 m .

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